Report in Accordance with BS EN ISO 10077-1:2006

Thermal Performance of Windows, Doors & Shutters

Calculation of Thermal Transmittance Part 1: Simplified Method

CONFIDENTIAL

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1 Introduction

This document details the thermal performance of the Permadoor, Hughes GRP Doorset detailed below which was commissioned by Trevor Wild of Permadoor.

The frame profile results detailed below are provided by computer simulation using LBL software program THERM 5.2 and validated against proofs in Annex D (D1 to D10) of BS EN ISO 10077-2:2003 / The frame profile results detailed below are provided from methods contained in BS EN ISO 10077-1:2006.

2 Summary of Results

2.1 Frame thermal transmittance (in accordance with BS EN ISO 10077-1:2006)

Frame Profile	Frame Thermal Transmittance (U_f)
Head	1.3 W/m^{2}K
Jamb	1.3 W/m^{2}K
Jamb Lock	1.5 W/m^{2}K
Cill	4.1 W/m^{2}K

2.2 Linear thermal transmittance (in accordance with BS EN ISO 10077-1:2006)

Frame Profile	Linear Thermal Transmittance (ψ)
Head	0.060 W/m.K
Jamb	0.11 W/m.K
Jamb Lock	0.11 W/m.K
Cill	0.11 W/m.K

2.3 U-Value

The thermal performance of the door (U_W) in accordance with EN ISO 10077-1:2006 is:

1.3 W/m^{2}K

All profile and PSI calculations are in accordance with BS EN ISO 10077-2:2003

3 Authorisation

	Issued by:
Signature:	
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